NHDES-W-06-012



WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau Land Resources Management





RSA/Rule: RSA 482-A	Env-Wt 100-900	*			
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up verus es		$R_{i}(G_{j})((x))(L_{i}(y),(y))$			GIMEN NO.
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					Halank .
1. REVIEW TIME: Indic	ate your Review Time b	pelow. To determine re	view time, refe	r to <u>Guidance Do</u>	cument A for instructions.
Standard Revi	ew (Minimum, Minor or	Major Impact)		Expedited Review	w (Minimum Impact only)
2. MITIGATION REQUI	REMENT:		t de la companya de l		
If mitigation is required a if Mitigation is Required,	Mitigation-Pre Applicat please refer to the Date	tion meeting must occurrence if Mitigation is I	ur prior to subm Required Frequ	itting this Wetlan	ds Permit Application. To determination.
Mitigation Pre-Ap ☑ N/A - Mitigatio	plication Meeting Date: n is not required	Month: Day:	Year:		
3. PROJECT LOCATIO Separate wetland permit		ubmitted for each mun	icipality that we	tland impacts co	cur within.
ADDRESS: Old Port	land Rd.			то	WN/CITY: FREEDOM
TAX MAP:	BLOCK	•	LOT:		UNIT:
USGS TOPO MAP WATER	BODY NAME: Bennett	Brook	□ NA	STREAM WATER	RSHED SIZE: 1132.8 Acres N
LOCATION COORDINATES	(If known): 43.81005,	-71.02569		l. 34	□ Latitude/Longitude □ UTM
require the use of sta		p of the box and da	amaged area:	s of the box wa	alls, inlet and outlet. This wil
5. SHORELINE FRONT	AGE:		THE RESERVE THE PROPERTY OF TH		
NA This does not ha	ve shoreline frontage.	SHOR	ELINE FRONT	AGE:	
Shoreline frontage is calc straight line drawn betwe	ulated by determining to on the property lines, bo	he average of the distant oth of which are measu	ances of the actured at the norm	tual naturat navig nal high water lin	able shoreline frontage and a e.
Please indicate if any of t	ne following permit appl	ications are required a	and, if required,	the status of the	O WITH THIS PROJECT: application. Management Web Page.
Permit	Туре	Permit Required	File Numbe	r Permit A	pplication Status
Alteration of Terrain Perm ndividual Sewerage Disp Subdivision Approval Per Shoreland Permit Per RS	osal per RSA 485-A:2 RSA 485-A	☐ YES ☒ NO ☐ YES ☒ NO ☐ YES ☒ NO ☐ YES ☒ NO	And the second s	☐ APPR	ROVED PENDING DENIED ROVED PENDING DENIED ROVED PENDING DENIED ROVED PENDING DENIED
7. NATURAL HERITAGE See the Instructions & Re			to complete a	& b below.	
a. Natural Heritage Bure	au File ID: NHB 16	- <u>1995</u> .	The state of the s		
Designated River to date a copy of the N/A	he project is in ¼ miles application was sent to	of:the Local River Mana	gement Adviso	; and ry Committee: Me	onth: Day: Year:

						500
8. APPLICANT INFORMATION (Desired permit holder	r)	LULINA COMPANIA DE CASA				
LAST NAME, FIRST NAME, M.I.: Rollins, William, G						
TRUST / COMPANY NAME:NHDOT District 3		MAILING A	DDRESS: 2 \$	sawmili Ro	ad	
TOWN/CITY: Gilford	1			STATE: NI	4	ZIP CODE: 03249
EMAIL or FAX: wrollins@dot.state.nh.us		PHONI	E: (603) 52 4	1-6667	-	
ELECTRONIC COMMUNICATION: By initialing here:	, I hereby auth	oriz e NHDE	S to communi	cate all matter	s relativ	e to this application
9. PROPERTY OWNER INFORMATION (If different the	an applicant)		30 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		and the second section of the sect
LAST NAME, FIRST NAME, M.I.:						
TRUST / COMPANY NAME:		MAILING AI	ODRESS:			
TOWN/CITY:				STATE:		ZIP CODE:
EMAIL or FAX:			PHONE:			
ELECTRONIC COMMUNICATION: By initialing here electronically	I hereby autho	rize NHDES	to communic	ate all matters	relative	to this application
10. AUTHORIZED AGENT INFORMATION						
LAST NAME, FIRST NAME, M.I.:			COMPANY	NAME:		
MAILING ADDRESS:						
TOWN/CITY:				STATE:		ZIP CODE:
EMAIL or FAX:		PHONE:				
ELECTRONIC COMMUNICATION: By initialing here	I hereby author	rize NHDES	to communic	ate all matters	relative	to this application
11. PROPERTY OWNER SIGNATURE: See the Instructions & Required Attachments document for	r clarification	of the belo	w statement	8		
By signing the application, I am certifying that:		· · · · · · · · · · · · · · · · · · ·	70. BURG. P. 2. 186. 128. 128. 128. 128. 128. 128. 128. 128	and the second s		decent (CC 023 5 5 C MC MC MATTER Above to the second seco
1. I authorize the applicant and/or agent indicated on the				ocessing of t	this app	olication, and to furnish
upon request, supplemental information in support of 2. I have reviewed and submitted information & attached				d Required /	Attachn	nent document
3. All abutters have been identified in accordance with	RSA 482-A:	3, I and En	v-Wt 100-90	0.		
4. I have read and provided the required information of					ct type.	
 I have read and understand Env-Wt 302.03 and hav Any structure that I am proposing to repair/replace w 					Bureau	or would be considered
grandfathered per Env-Wt 101.47. 7. I have submitted a Request for Project Review (RPF			•			
(SHPO) at the NH Division of Historical Resources t with the lead federal agency for NHPA 106 complian	to identify the nce.	presence	of historical/	archeologic	al reso	
8. I authorize NHDES and the municipal conservation of						
 I have reviewed the information being submitted and I understand that the willful submission of falsified or 	r misrepresen	nted inform				
Environmental Services is a criminal act, which may 11. I am aware that the work I am proposing may require 12. The mailing addresses I have provided are up to dat	e additional s	tate, local				
emperature to the second secon			*	CONTRACTOR OF THE PARTY OF THE	100 00 A 000	
William Rollins			Rollins	- 1		12016
Property Owner Signature	Print name legi	IDIY		12)ata	

MUNICIPAL SIGNATURES

The signature below certifies that the municipal conservation commission has reviewed this application, and: 1. Waives its right to intervene per RSA 482-A:11; 2. Believes that the application and submitted plans accurately represent the proposed project; and 3. Has no objection to permitting the proposed work. Print name legibly Date

DIRECTIONS FOR CONSERVATION COMMISSION

- 1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
- 2. Expedited review requires the Conservation Commission signature be obtained **prior** to the submittal of the original application to the Town/City Clerk for signature.
- 3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will reviewed in the standard review time frame.

As required by Chapter 482-A:3 (amended 2014), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3,1

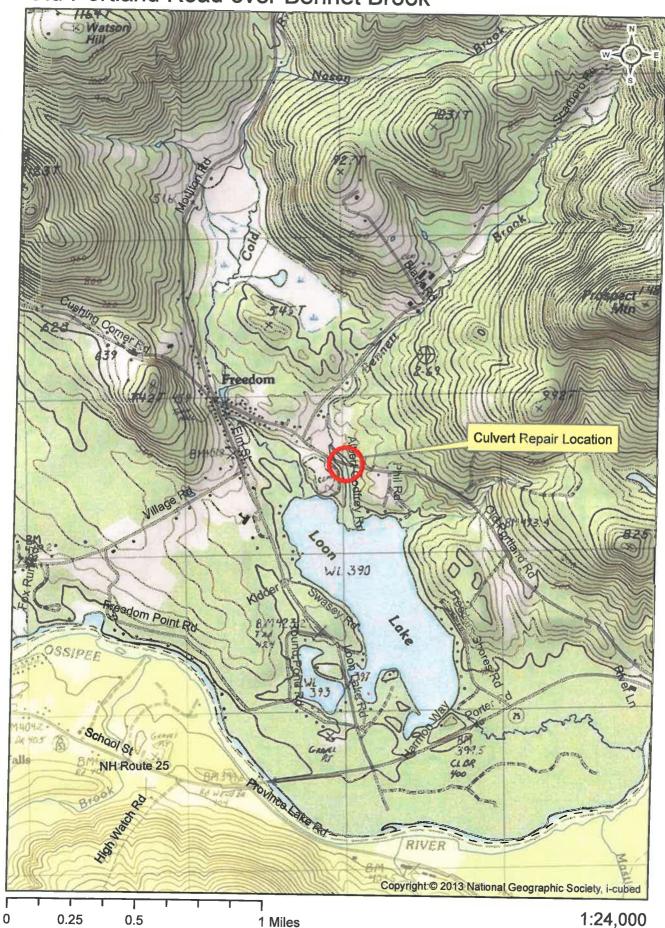
- 1. For applications where "Expedited Review" is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will NOT receive the expedited review time.
- 2. IMMEDIATELY sign the original application form and four copies in the signature space provided above;
- 3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
- 4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board; and
- 5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

1. Submit the single, original permit application form bearing the signature of the Town/ City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

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Scrub-shrub wetland	
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Scrub-shrub wetland	ATF
Scrub-shrub wetland ATF Emergent wetland ATF Wet meadow ATF Intermittent stream ATF Perennial Stream / River 30 / 30 ATF 400 / 40 Lake / Pond / ATF / Bank - Intermittent stream / ATF / Bank - Perennial stream / River / ATF / Bank - Lake / Pond / ATF / Tidal water / ATF / Salt marsh ATF ATF Prime wetland ATF ATF Prime wetland buffer ATF ATF	ATF
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JURISDICTIONAL AREA PERMANENT Sq. Ft. / Lin. Ft. TEMPORARY Sq. Ft. / Lin. Ft.	
Permanent: impacts that will remain after the project is complete. Temporary: impacts not intended to remain (and will be restored to pre-construction conditions) after the project is com-	plete.
14. IMPACT AREA: For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact	

Freedom 1832H Topographic Map Old Portland Road over Bennet Brook



NHDES

WETLANDS PERMIT APPLICATION – ATTACHMENT A MINOR AND MAJOR - 20 QUESTIONS

Water Division/ Wetlands Bureau/ Land Resources Management Check the Status of your application: www.des.nh.gov/onestop



RSA/ Rule: RSA 482-A, Env-Wt 100-900

<u>Env-Wt 302.04</u> Requirements for Application Evaluation - For any major or minor project, the applicant shall demonstrate by plan and example that the following factors have been considered in the project's design in assessing the impact of the proposed project to areas and environments under the department's jurisdiction. Respond with statements demonstrating:

1. The need for the proposed impact.

The proposed project is necessary to repair a concrete box culvert which has deteriorated to the point of being structurally deficient. There is spalled concrete on the walls and large areas of missing concrete on the ceiling, causing the exposed rebar supports to rust and bend. Repouring concrete on the walls and roof will repair and extend the functional lifespan of the culvert and prevent collapse of the culvert. This is necessary to maintain the safety of the traveling public at this crossing.

2. That the alternative proposed by the applicant is the one with the least impact to wetlands or surface waters on site.

The no build option would eventaully lead to the collapse of the culvert and an extenseive emergency replacement operation would likely involve a significant impact to the stream. Replacing the culvert right now would also have a large impact to the stream bed, banks and surrounding wetlands due to the excavation necessary to remove the box and install a new one. Repairing the existing culvert, as proposed, does not require excavation and has relatively minimal impacts to the stream. Permanent impacts result from the increased area of concrete inside the culvert due to pouring an adidtional 6" of concrete over the existing walls. The temporary impact associated with repair is due to the placement of scaffolding in the brook to properly repair the roof, as well as the disturbance associated with construction crew accessing the inside of the culvert.

The type and classification of the wetlands involved.
R2UB1,2: Riverine, Lower Perennial, Unconsolidated bottom, cobble-gravel/sand
4. The relationship of the proposed wetlands to be impacted relative to nearby wetlands and surface waters.
Bennett Brook flows into Look Lake approximately 0.25 miles south of the project area.
5. The rarity of the wetland, surface water, sand dunes, or tidal buffer zone area.
The stream type impacted by the project is common in New Hampshire.
6. The surface area of the wetlands that will be impacted.
Temporary impact: 400 s.f.
Permanent impact: 30 s.f.
Total impact: 430 s.f.

7. The impact on plants, fish and wildlife including, but not limited to: a. Rare, special concern species: b. State and federally listed threatened and endangered species: c. Species at the extremities of their ranges; d. Migratory fish and wildlife: e. Exemplary natural communities identified by the DRED-NHB: and f. Vernal pools a. There are no rare species or species of special concerns within the project impact area b. The NH Natural Hertiage Bureau has reviewed the project area and found that there are no known records of any state or federally listed threatehed or endangered species in the vicnity crossing. The US Fish and Wildlife Service has also been consulted via the online Information for Planning and Conservation Tool and indicated that the project is located within the range of the small whorled pogonia and the northern long-eared bat, both federally threatened species. The USFWS Section 7 online review tool was used to further consult with USFWS regarding impacts to the small whorled pogonia, and it was determined that this plant is not know to occur in the Town of Freedom and therefor will not be affected by the project. This project meets the requirements for the final 4(d) exempting certain transprotation project acitivites from the prohibition on take which would otherwise limit work within northern long-eared bat habitat. The US Army Corps of Engineers is the lead federal agency for this project and has completed the necessary Section 7 consultation using the final 4(d) rule, no further consultation with the USFWS is necessary. c. There are no species at the extremities of their ranges within the project area. d. No migratory fish or wildlife will be impacted by the proposed activities. e. The NHNHB has reviewd the project area and confirmed that there are no exemplary natural communities within the project area. f. Based on the wetland delineations performed in the field, there are no vernal pools within the project area. 8. The impact of the proposed project on public commerce, navigation and recreation. The proposed repair will extend the life of the culvert with minimal disruption during construction resulting in a benefit to public commernce, navigation and recreation by allowing continued safe usage of the roadway for the travling public. 9. The extent to which a project interferes with the aesthetic interests of the general public. For example, where an applicant proposes the construction of a retaining wall on the bank of a lake, the applicant shall be required to indicate the type of material to be used and the effect of the construction of the wall on the view of other users of the lake. There will be no change to the overall aesthetic of the project area.

10. The extent to which a project interferes with or obstructs public rights of passage or access. For example, where the applicant proposes to construct a dock in a narrow channel, the applicant shall be required to document the extent to which the dock would block or interfere with the passage through this area.
There will be no interference with public rights of passage or access.
11. The impact upon abutting owners pursuant to RSA 482-A:11, II. For example, if an applicant is proposing to rip-rap a stream, the applicant shall be required to document the effect of such work on upstream and downstream abutting properties.
The proposed work will not have a negative effect on any surrounding abutters.
2
12. The benefit of a project to the health, safety, and well being of the general public.
The proposed project will benefit the public by extending the functional lifespan of the culvert and allowing the
traveling public to safely cross Bennett Brook.

16.	6. The cumulative impact that would result if all parties owning or abutting a portion of the affected wetland or wetland complex were also permitted alterations to the wetland proportional to the extent of their propriyaghs. For example, an applicant who owns only a portion of a wetland shall document the applicant's percentage of ownership of that wetland and the percentage of that ownership that would be impacted. he proposed impact area is minimal and it is unlikely that any abutters or nearby property owners would propose the same kind of activity. 7. The impact of the proposed project on the values and functions of the total wetland or wetland complex. ne propose project will not impact the functions and values of the wetland complex as all permanetne impacts to 6" strips along the existing culvert walls.
17.	The impact of the proposed project on the values and functions of the total wetland or wetland complex.
The	e propose project will not impact the functions and values of the wetland complex as all permanetne impacts

18. The impact upon the value of the sites included in the latest published edition of the National F Landmarks, or sites eligible for such publication.	Register of Natural
There are no sites such as the ones described above in the vicinity of the project area.	
19. The impact upon the value of areas named in acts of congress or presidential proclamations as wilderness areas, national lakeshores, and such areas as may be established under federal, sta for similar and related purposes such as estuarine and marine sanctuaries.	national rivers, national te, o r municipal laws
There are no sites such as the ones described above within the project area.	
20. The degree to which a project redirects water from one watershed to another.	
The proposed project does not redirect water from one watershed to another.	

Additional comments	п	

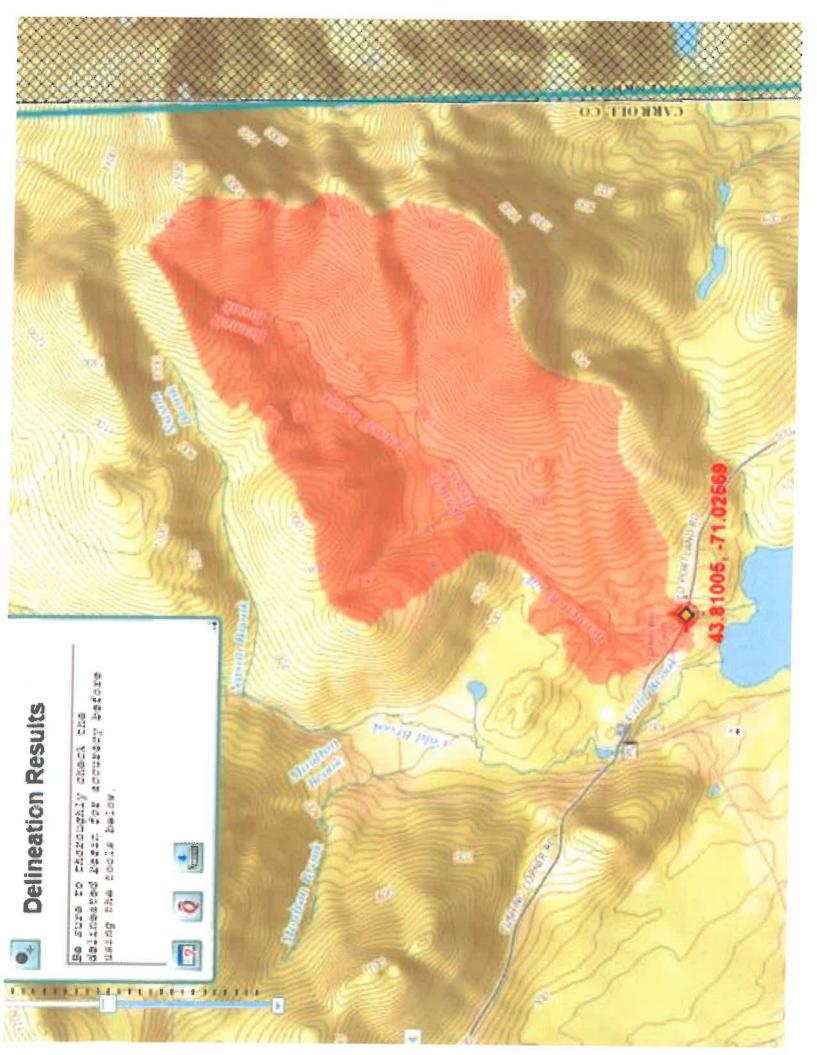
Freedom #1832H

Bill Rollins gave an overview of the project. Bridge Maintenance will be performing the work. They plan to do the majority of the work from the top by taking out the roof and adding a new roof that can support the present day traffic load. Again they plan to use scaffolding in the river which will cause temporary wetland impacts. There are alternative routes and could detour so they could close the road and work on the bridge all at once, or could do it in halves and have one lane of traffic.

Matt Urban gave a run down of the environmental aspects and components. There are invasives located at this site and they will follow the manual for proper procedures. The stream is Tier 3. Mike Hicks asked if there are any historic properties on site. Matt Urban responded back no. It was asked where the invasives were located. M. Urban wasn't sure and we couldn't locate them in the pictures. M. Urban said he would check the location of the invasives and the note about their presence at this site.

M. Urban asked if mitigation would be required for this project. Lori Sommers responded no. Gino Infascelli mentioned that there could be possible wetland impacts upstream; looking at an aerial the N/W are was looking greyish. M. Urban agreed and stated that we have mapped out the wetland areas. G. Infascelli stated that it looked like there is enough shoulder that wetland impacts could be avoided.

M. Urban asked if B. Rollins knew which side Bridge Maintenance wants to access the bridge from. B. Rollins did not know but plans to check with Bridge Maintenance. M. Urban ask that that be included/noted in the permit application. Carol Henderson ask if the project was to be worked on this winter. M. Urban responded yes.



NH Department of Transportation Maintenance District 3 Freedom, 1832H Old Portland Road over Bennett Brook Env-Wt 904.09 Alternative Design TECHNICAL REPORT

Env-Wt 904.09(a) - If the applicant believes that installing the structure specified in the applicable rule is not practicable, the applicant may propose an alternative design in accordance with this section.

Please explain why the structure specified in the applicable rule is not practicable (Env-Wt 101.69 defines practicable as available and capable of being done after taking into consideration costs, existing technology, and logistics in light of overall project purposes.)

The Old Portland Road over Bennett Brook is a Tier 3 stream crossing located in a 1132.8 acre drainage area. The compliant size structures required for this crossing would be a 62 foot open-bottom structure. The existing crossing has substantial areas of spalled concrete on the walls and top which require pouring new concrete patches over the walls and replacing the top but is otherwise functioning sufficiently. Installing a new compliant structure would have significantly more impact to wetlands and the community during construction due to road closure and is extremely cost prohibitive. Since the issues with the culvert can be fixed through maintenance and this strategy has very limited impacts, this is the proposed alternative.

The proposed alternative meets the specific design criteria for Tier 2 and Tier 3 crossings to the maximum extent practicable, as specified below.

Env-Wt 904.05 Design Criteria for Tier 2 and Tier 3 Stream Crossings – New Tier 2 stream crossings, replacement Tier 2 crossings that do not meet the requirements of Env-Wt 904.07, and new and replacement Tier 3 crossings shall be designed and constructed:

- (a) In accordance with the NH Stream Crossing Guidelines. This project will not replace the existing 5.5' x 5' box. Work is limited to replacing the top and pouring concrete along the scaling concrete walls.
- (b) With bed forms and streambed characteristics necessary to cause water depths and velocities within the crossing structure at a variety of flows to be comparable to those found in the natural channel upstream and downstream of the stream crossing.

Pouring concrete along the existing walls will not change the characteristics of the crossing.

- (c) To provide a vegetated bank on both sides of the watercourse to allow for wildlife passage. The existing vegetated bank will be maintained.
- (d) To preserve the natural alignment and gradient of the stream channel, so as to accommodate natural flow regimes and the functioning of the natural floodplain.

 The alignment will not be changed.
- (e) To accommodate the 100-year frequency flood, to ensure that (1) there is no increase in flood stages on abutting properties; and (2) flow and sediment transport characteristics will not be affected in a manner which could adversely affect channel stability.

This box does not have a history of flooding and existing flows and flood elevations will be maintained.

(f) To simulate a natural stream channel. No changes to the stream channel as it exists are proposed.

(g) So as not to alter sediment transport competence. Sediment transport will not be changed

Env-Wt 904.09(c)(3) – The alternative design must meet the general design criteria specified in Env-Wt 904.01:

Env-Wt 904.01

(a) Not be a barrier to sediment transport;

The culvert as it exist is not a barrier to sediment transport.

- (b) Prevent the restriction of high flows and maintain existing low flows; No significant changes are proposed therefor existing flows and flood elevations will be maintained.
- (c) Not obstruct or otherwise substantially disrupt the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction; No changes are proposed.
- (d) Not cause an increase in the frequency of flooding or overtopping of banks; No significant changes are proposed therefor existing flows and flood elevations will be maintained.
- (e) Preserve watercourse connectivity where it currently exists; Watercourse connectivity will remain unchanged.
- (f) Restore watercourse connectivity where: (1) Connectivity previously was disrupted as a result of human activity(ies); and (2) Restoration of connectivity will benefit aquatic life upstream or downstream of the crossing, or both;

Watercourse connectivity is maintained as there will be no significant changes to the existing crossing.

- (g) Not cause erosion, aggradation, or scouring upstream or downstream of the crossing; and The existing box does not cause erosion, aggradation, or scouring.
- (h) Not cause water quality degradation. There will be no effect on water quality.

***Note: An alternative design for <u>Tier 1</u> stream crossings must meet the general design criteria (Env-Wt 904.01) only to the *maximum extent practicable*.

To:

Melilotus Dube

7 Hazen Drive

Concord, NH 03301

From: NH Natural Heritage Bureau

Re:

Review by NH Natural Heritage Bureau of request dated 6/22/2016

NHB File ID: NHB16-1995

Applicant: Melilotus Dube

Date: 6/22/2016

Location:

Tax Map(s)/Lot(s):

Freedom

Project Description: NHDOT 1832H. Repair top of box culvert and eroded

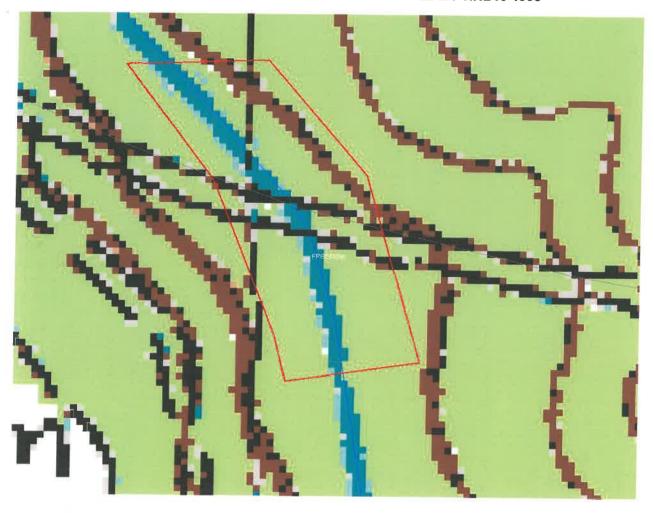
concrete at base of box and wingwalls.

The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

This report is valid through 6/21/2017.

MAP OF PROJECT BOUNDARIES FOR NHB FILE ID: NHB16-1995





United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Ecological Services Field Office 70 COMMERCIAL STREET, SUITE 300 CONCORD, NH 03301

PHONE: (603)223-2541 FAX: (603)223-0104 URL: www.fws.gov/newengland



June 22, 2016

Consultation Code: 05E1NE00-2016-SLI-1664

Event Code: 05E1NE00-2016-E-02412

Project Name: Freedom

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan

(http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and

http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment





Project name: Freedom

Official Species List

Provided by:

New England Ecological Services Field Office 70 COMMERCIAL STREET, SUITE 300 CONCORD, NH 03301 (603) 223-2541_ http://www.fws.gov/newengland

Consultation Code: 05E1NE00-2016-SLI-1664

Event Code: 05E1NE00-2016-E-02412

Project Type: TRANSPORTATION

Project Name: Freedom

Project Description: Old Portland Road over Bennet Brook- box culvert repair

Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.





Project name: Freedom

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-71.0258549451828 43.81045310706631, -71.0258013010025 43.80987630350885, -71.02550089359283 43.80986856114133, -71.02555453777313 43.81045310706631, -71.0258549451828 43.81045310706631)))

Project Counties: Carroll, NH





Project name: Freedom

Endangered Species Act Species List

There are a total of 2 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Flowering Plants	Status	Has Critical Habitat	Condition(s)
Small Whorled pogonia (Isotria medeoloides)	Threatened		
Mammals			
Northern long-eared Bat (Myotis	Threatened		





Project name: Freedom

Critical habitats that lie within your project area

There are no critical habitats within your project area.



United States Department of the Interior

FISH AND WILDLIFE SERVICE



New England Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5087 http://www.fws.gov/newengland

January 22, 2016

To Whom It May Concern:

This project was reviewed for the presence of federally listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm (accessed January 2016)

Based on information currently available to us, no federally listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required. No further Endangered Species Act coordination is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Maria Tur of this office at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman

Supervisor

New England Field Office

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN NEW HAMPSHIRE

		FEDERAL	GENERAL	
COUNTY	SPECIES	STATUS	LOCATION/HABITAT	TOWNS
Belknap	Small whorled Pogonia	whorled Pogonia Threatened Forests with somewhat poorly drained soils and/or a seasonally high water table		Meredith, Alton and Laconia
Бекнар	Northern Long-eared Bat Threatened Final 4(d) Rule Winter- mines and caves, Summer – wide variety of forested habitats		Summer – wide variety of	Statewide
Carroll	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Albany, Brookfield, Eaton, Effingham, Madison, Ossipee, Wakefield and Wolfeboro
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
	Canada Lynx	Threatened	Regenerating softwood forest, usually with a high density of snowshoe hare.	All Towns
Coos	Dwarf wedgemussel	Endangered	Connecticut River main channel and Johns River	Northumberland, Lancaster and Dalton
	Northern Long-eared Bat		Summer – wide variety of	Statewide
	Cheshire Dwarf wedgemussel Endangered S. Branch Ashuelot River and Ashuelot River Winter- mines and caves, Final 4(d) Rule Summer – wide variety of forested habitats		Swanzey, Keene and Surry	
Cheshire			Summer – wide variety of	Statewide
	Dwarf wedgemussel	Endangered	Connecticut River main channel	Haverhill, Piermont, Orford and Lyme
Grafton	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Holderness
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Hillsborough	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Manchester, Weare
1111150010ugii	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
	Karner Blue Butterfly	Endangered	Pine Barrens with wild blue lupine	Concord and Pembroke
Merrimack	Small whorled Pogonia	Threatened	Forests	Bow, Danbury, Epsom, Loudon, Warner and Allenstown
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

Dube, Melilotus

From:

Hicks, Michael C NAE < Michael.C. Hicks@usace.armv.mil>

Sent:

Tuesday, September 06, 2016 3:23 PM

To: Cc: Dube, Melilotus

Subject:

RE: NHDOT District 3 Maintenance Projects NLEB Coordination- Wolfeboro, Tilton,

Freedom, Eaton

Ryan, Kerry

For the Freedom, Eaton and Wolfeboro projects, the Corps has made the No Affect call with no need to consult.

Thanks, Michael Hicks, PM USACE, REG DIV., BR. C 978-318-8157

----Original Message----

From: Dube, Melilotus [mailto:MDube@dot.state.nh.us]

Sent: Tuesday, September 06, 2016 2:48 PM

To: Hicks, Michael C NAE < Michael.C. Hicks@usace.army.mil >

Cc: Ryan, Kerry < KRyan@dot.state.nh.us>

Subject: [EXTERNAL] RE: NHDOT District 3 Maintenance Projects NLEB Coordination- Wolfeboro, Tilton, Freedom, Eaton

Thank you, Mike!

Please let me know if USFWS responds to you about Tilton, otherwise I will assume we are all set after the 30 day timeframe.

For the No Affect projects (Freedom, Eaton and Wolfeboro), will you send us an official statement or form or should we use this email as confirmation of consultation and no further coordination required?

We will get NHSHPO coordination to you for Tilton and Wolfeboro as soon as it is complete.

Meli

----Original Message----

From: Hicks, Michael C NAE [mailto:Michael.C.Hicks@usace.army.mil]

Sent: Thursday, September 01, 2016 2:33 PM

To: Dube, Melilotus Cc: Ryan, Kerry

Subject: RE: NHDOT District 3 Maintenance Projects NLEB Coordination- Wolfeboro, Tilton, Freedom, Eaton

Dube and Kerry,

I sent the 4(d) letter to USFWS on 8/30/2016 for Tilton. For Freedom, Eaton, and Wolfeboro, there are either no trees being cleared, no rip rap being disturbed associated with a dam and/or they are culverts (not bridges), therefore I can make the No Affect for the NLEB and don't need to send in the 4(d) letter. I need OK from the NHSHPO for Tilton and Wolfeboro. I need Small-whorled Pagonia info. on Wolfeboro. Permit for NHDOT No. 16279 (Gilford) was issued today.

Thanks, Mike

Michael Hicks, PM USACE, REG DIV., BR. C 978-318-8157

----Original Message-----

From: Dube, Melilotus [mailto:MDube@dot.state.nh.us]

Sent: Thursday, September 01, 2016 1:41 PM

To: Hicks, Michael C NAE < Michael.C. Hicks@usace.army.mil >

Cc: Ryan, Kerry < KRyan@dot.state.nh.us>

Subject: [EXTERNAL] NHDOT District 3 Maintenance Projects NLEB Coordination- Wolfeboro, Tilton, Freedom, Eaton

Good afternoon Mike,

Kerry and I are looking to confirm that you have received all of the information that you need from us to complete NLEB consultation with USFWS for our culvert repair projects in Wolfeboro, Tilton, Freedom and Eaton. If you could CC us on any correspondence or let us know when you send the forms in to USFWS so that we can keep track of timelines for our projects, we would really appreciate it.

Thank you!

Meli



THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

RECEIVED Aut 15 2016



20%

Victoria F. Sheehan Commissioner

FREEDOM 1832H RPR 7906

No Historic Properties Affected Memo

Pursuant to the New Hampshire Division of Historic Resources response to the Request for Project Review, dated August 4, 2016, and for the purpose of compliance with regulations of the National Historic Preservation Act, the Advisory Council on Historic Preservation's Procedures for the Protection of Historic Properties (36 CFR 800), and the US Army Corps of Engineers' Appendix C; the NH Division of Historical Resources and the US Army Corps of Engineers have coordinated the identification and evaluation of cultural resources with plans to repair a concrete box culvert carrying Old Portland Road over Bennett Brook in the town of Freedom, New Hampshire. This project will replace the concrete ceiling, floor and wingwalls in kind, without impacting the adjacent historic stone walls.

Based on these reviews, we have determined that no historic or archeological resources will be affected and that no further survey work is needed.

In accordance with the Advisory Council's regulations, we will continue to consult, as appropriate, as this project proceeds.

8 15 Jule Date

Cultural Resources Manager

Concurred with by the NH State Historic Preservation Officer:

Elizabeth H. Muzzev State Historic Preservation Officer

NH Division of Historical Resources

Meli Dube, NHDOT c.c.

> Michael Hicks, ACOE William Rollins, NHDOT Chris St. Louis, NHDHR

S:\Environment\PROJECTS\FREEDOM\1832-H\Cultural\Freedom 1832H NoHistPropAffectedACOE.doc

US Army Corps of Engineers ® New England District

U.S. Army Corps of Engineers New Hampshire Programmatic General Permit (PGP) Appendix B - Corps Secondary Impacts Checklist (for inland wetland/waterway fill projects in New Hampshire)

- 1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
- 2. All references to "work" include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
- 3. See PGP, GC 5 regarding single and complete projects.
- 4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See	х	
http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm		
to determine if there is an impaired water in the vicinity of your work area.*		
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	X	
2.2 Are there proposed impacts to SAS, shellfish beds, special wetlands and vernal pools (see		X
PGP, GC 26 and Appendix A)? Applicants may obtain information from the NH Department of		
Resources and Economic Development Natural Heritage Bureau (NHB) website,		
www.nhnaturalheritage.org, specifically the book Natural Community Systems of New		
Hampshire.		
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	х	
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent		X
to streams where vegetation is strongly influenced by the presence of water. They are often thin		
lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream		
banks. They are also called vegetated buffer zones.)		
2.5 The overall project site is more than 40 acres.		X
2.6 What is the size of the existing impervious surface area?	n/a	1
2.7 What is the size of the proposed impervious surface area?	n/a	ı
2.8 What is the % of the impervious area (new and existing) to the overall project site?	n/a	l
3. Wildlife	Yes	No
3.1 Has the NHB determined that there are known occurrences of rare species, exemplary natural	х	
communities, Federal and State threatened and endangered species and habitat, in the vicinity of		
the proposed project? (All projects require a NHB determination.)		
3.2 Would work occur in any area identified as either "Highest Ranked Habitat in N.H." or		X
"Highest Ranked Habitat in Ecological Region"? (These areas are colored magenta and green,		
respectively, on NH Fish and Game's map, "2010 Highest Ranked Wildlife Habitat by Ecological		
Condition.") Map information can be found at:		
• PDF: www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm.		
Data Mapper: <u>www.granit.unh.edu</u> .		
• GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html.		
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland,		X
2.5 to one are project impact more man 20 acres of an undergrouped faild block (hibiand		43.
wetland/waterway) on the entire project site and/or on an adjoining property(s)?		
wetland/waterway) on the entire project site and/or on an adjoining property(s)?		
wetland/waterway) on the entire project site and/or on an adjoining property(s)? 3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X

4. Flooding/Floodplain Values	Yes	No		
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?	х			
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?				
5. Historic/Archaeological Resources				
If a minor or major impact project, has a copy of the Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) been sent to the NH Division of Historical Resources as required on Page 5 of the PGP?**	X			

^{*}Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.

** If project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.



Site Looking West



Inlet Looking North



Failure Looking South



Repair area



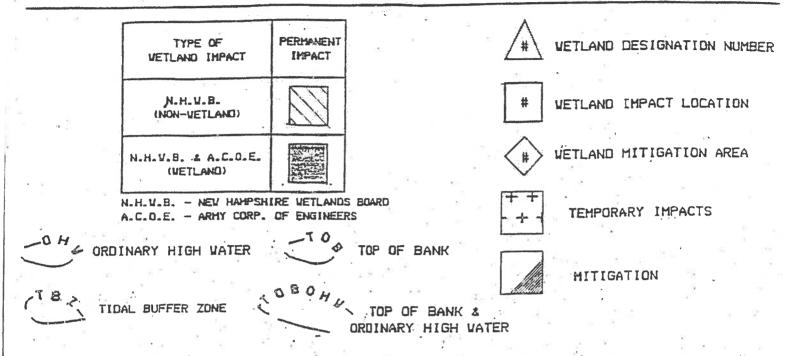
Repair Area Inlet





Outlet Looking South

LEGEND



SHOWN SMALLER THAN ACTUAL SIZE

VETLAND DESIGNATION	USFUS VETLAND CLASSIFICATION	LOCATION	AREA (S.F.)		
			N.H.V.B. (NON-VETLAND)	N.H.V.B. & A.C.O.E. (VETLAND)	TEMPORARY IMPACTS
	K2(4R42	A	19	30	
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PERMANENT IMPACTS: 30 S.F. TEMPORARY IMPACTS: 400 S.F.

TOTAL IMPACTS: 430 s.F.

